

WE CLAIM

1. A hair dye fixative comprising a complex nucleus capable of forming a complex with an acid dye.
2. A hair dye fixative according to Claim 1 wherein said fixative comprises an acid.
3. A hair dye fixative according to Claim 1 wherein said fixative comprises silicone.
4. A hair dye fixative according to Claim 1 wherein said complex nucleus is a multivalent metal ion.
5. A hair dye fixative according to Claim 4 wherein a combination amount of said multivalent metal ion is 0.1 to 20 % by weight in terms of a weight of the corresponding metal salt.
6. A hair dye fixative according to Claim 5 wherein said fixative comprises an acid in an amount of 0.01 to 15 % by weight.
7. A hair dye fixative according to Claim 6 wherein said acid is an organic acid.
8. A hair dye fixative according to Claim 6 wherein said acid is α -hydroxyl acid.
9. A hair dye fixative according to Claim 6 wherein said acid is glycolic acid.
10. A hair dye fixative according to Claim 5 wherein said fixative comprises one or more compounds selected from ethanol, isopropanol, n-propanol, n-butanol and isobutanol.
11. A hair dye fixative according to Claim 5 wherein said fixative comprises silicone.
12. A hair dye fixative according to Claim 1 wherein said complex nucleus is aluminum ion.
13. A hair dye fixative according to Claim 12 wherein a combination amount of aluminum ion is 0.1 to 20 % by weight in terms of a weight of the corresponding metal salt.
14. A hair dye fixative according to Claim 13 wherein said fixative comprises an acid in an amount of 0.01 to 15 % by weight.
15. A hair dye fixative according to Claim 14 wherein said acid is an organic acid.
16. A hair dye fixative according to Claim 14 wherein said acid is α -hydroxyl acid.
17. A hair dye fixative according to Claim 14 wherein said acid is glycolic acid.
18. A hair dye fixative according to Claim 13 wherein said fixative comprises one or more compounds selected from ethanol, isopropanol, n-propanol, n-butanol and isobutanol.
19. A hair dye fixative according to Claim 13 wherein said fixative comprises silicone.

20. A hair dye comprising:

- an acid dye;
- a complex nucleus capable of forming a complex with said acid dye; and,
- an organic solvent having quantitative and qualitative characteristics which do not allow said acid dye to form a dye complex with said complex nucleus.

21. A hair dye according to Claim 20 wherein said hair dye comprises xyloglucan.

22. A hair dye according to Claim 21 wherein said hair dye comprises silicone.

23. A hair dye according to Claim 20 wherein said hair dye comprises an acid.

24. A hair dye according to Claim 20 wherein said complex nucleus is a multivalent metal ion.

25. A hair dye according to Claim 24 wherein a combination amount of said multivalent metal ion is 0.01 to 20 % by weight in terms of a weight of the corresponding metal salt.

26. A hair dye according to Claim 25 wherein said hair dye comprises xyloglucan in an amount of 0.1 to 30 % by weight.

27. A hair dye according to Claim 26 wherein said hair dye comprises silicone.

28. A hair dye according to Claim 25 wherein said hair dye comprises an acid in an amount of 0.01 to 15 % by weight.

29. A hair dye according to Claim 28 wherein said acid is an organic acid.

30. A hair dye according to Claim 28 wherein said acid is α -hydroxyl acid.

31. A hair dye according to Claim 28 wherein said acid is glycolic acid.

32. A hair dye according to Claim 25 wherein said hair dye comprises an aromatic alcohol.

33. A hair dye according to Claim 25 wherein said hair dye comprises one or more compounds selected from ethanol, isopropanol, n-propanol, n-butanol and isobutanol.

34. A hair dye according to Claim 20 wherein said complex nucleus is aluminum ion.

35. A hair dye according to Claim 34 wherein a combination amount of aluminum ion is 0.01 to 20 % by weight in terms of a weight of the corresponding metal salt.

36. A hair dye according to Claim 35 wherein said hair dye comprises xyloglucan in an amount of 0.1 to 30 % by weight.

37. A hair dye according to Claim 36 wherein said hair dye comprises silicone.
38. A hair dye according to Claim 35 wherein said hair dye comprises an acid in an amount of 0.01 to 15 % by weight.
39. A hair dye according to Claim 38 wherein said acid is an organic acid.
40. A hair dye according to Claim 38 wherein said acid is α -hydroxyl acid.
41. A hair dye according to Claim 38 wherein said acid is glycolic acid.
42. A hair dye according to Claim 35 wherein said hair dye comprises an aromatic alcohol.
43. A hair dye fixative according to Claim 35 wherein said fixative comprises one or more compounds selected from ethanol, isopropanol, n-propanol, n-butanol and isobutanol.
44. A mixing type hair dye wherein a mixture of two compositions is prepared before use and the mixture is applied to hair consisting of:
 - a first composition comprising an acid dye; and,
 - a second composition comprising a complex nucleus capable of forming a complex with said acid dye.
45. A hair dye according to Claim 44 wherein a first composition comprises xyloglucan.
46. A hair dye according to Claim 45 wherein a first composition comprises silicone.
47. A hair dye according to Claim 44 wherein a second composition comprises an acid.
48. A hair dye according to Claim 44 wherein a second composition comprises silicone.
49. A hair dye according to Claim 44 wherein said complex nucleus is a multivalent metal ion.
50. A hair dye according to Claim 49 wherein a second composition comprises said multivalent metal in an amount of 0.1 to 20 % by weight in terms of a weight of the corresponding metal salt.
51. A hair dye according to Claim 50 wherein said hair dye comprises xyloglucan in an amount of 0.1 to 30 % by weight.
52. A hair dye according to Claim 51 wherein a first composition comprises silicone.
53. A hair dye according to Claim 50 wherein a second composition comprises an acid in an amount of 0.01 to 15 % by weight.

54. A hair dye according to Claim 53 wherein said acid is an organic acid.
55. A hair dye according to Claim 53 wherein said acid is α -hydroxyl acid.
56. A hair dye according to Claim 53 wherein said acid is glycolic acid.
57. A hair dye according to Claim 50 wherein a first composition comprises an aromatic alcohol.
58. A hair dye according to Claim 50 wherein a first composition comprises one or more compounds selected from ethanol, isopropanol, n-propanol, n-butanol and isobutanol.
59. A hair dye according to Claim 50 wherein a second composition comprises benzyl alcohol.
60. A hair dye fixative according to Claim 50 wherein a second composition comprises one or more compounds selected from ethanol, isopropanol, n-propanol, n-butanol and isobutanol.
61. A hair dye according to Claim 44 wherein said complex nucleus is aluminum ion.
62. A hair dye according to Claim 61 wherein a second composition comprises aluminum ion in an amount of 0.1 to 20 % by weight in terms of a weight of the corresponding metal salt.
63. A hair dye according to Claim 62 wherein a first composition comprises xyloglucan in an amount of 0.1 to 30 % by weight.
64. A hair dye according to Claim 63 wherein a first composition comprises silicone.
65. A hair dye according to Claim 62 wherein a second composition comprises an acid in an amount of 0.01 to 15 % by weight.
66. A hair dye according to Claim 65 wherein said acid is an organic acid.
67. A hair dye according to Claim 65 wherein said acid is α -hydroxyl acid.
68. A hair dye according to Claim 65 wherein said acid is glycolic acid.
69. A hair dye according to Claim 62 wherein a first composition comprises an aromatic alcohol.
70. A hair dye according to Claim 62 wherein a first composition comprises one or more compounds selected from ethanol, isopropanol, n-propanol, n-butanol and isobutanol.
71. A hair dye according to Claim 62 wherein a second composition comprises benzyl alcohol.

72. A hair dye according to Claim 62 wherein a second composition comprises one or more compounds selected from ethanol, isopropanol, n-propanol, n-butanol and isobutanol.
73. A hair dyeing method characterized by treating the hair with a hair dye fixative comprising a complex nucleus capable of forming a complex with an acid dye, and then dying a hair with an acid dye.
74. A hair dyeing method according to Claim 73 wherein said complex nucleus is a metal ion.
75. A hair dyeing method according to Claim 73 wherein said complex nucleus is aluminum ion.
76. A hair dyeing method characterized by dyeing a hair with an acid dye and simultaneously treating the hair with a hair dye fixative comprising a complex nucleus capable of forming a complex with said acid dye.
77. A hair dyeing method according to Claim 76 wherein said complex nucleus is a metal ion.
78. A hair dyeing method according to Claim 76 wherein said complex nucleus is aluminum ion.
79. A hair dyeing method characterized by dying a hair with an acid dye, and then treating the hair with a hair dye fixative comprising a complex nucleus capable of forming a complex with said acid dye.
80. A hair dyeing method according to Claim 79 wherein said complex nucleus is a metal ion.
81. A hair dyeing method according to Claim 79 wherein said complex nucleus is aluminum ion.